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#### FIGURE 1

#### LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA 5'untranscribed-intron 2, 821 bp

### **FEATURES**

5'UTR 313-331 exon 1 332-364 intron 1 365-726 exon 2 727-766 intron 2 767-821>

BASE COUNT 139 a 219 c 259 g 204 t

```
1 tctgagagcc caactctgct caatgaccat gttcccacat gctccaagcc acatcccctc 61 aaaaagggtc cctctagctt gtcctcagtg acccaggagg cagctgagga ccaagtaccc 121 agattatccg gtgcgccct tccctccag caaccccag ccttcagggc tgtagcagct 181 gagcaaatgg gggccctcc ctctcattgc ctgacacca atcagagaga aaccgatcct 241 ggcagggcag ggtgcccggg gccgggcca gaatagtgca gcccagccac agtgtcgcac 301 acttgctct agttggtctg gggctggcca catggagccc gggctggagc acgcactgcg 361 cagggtatgg gggtcccagg ggagccggag ccggggcagc tgaggccaga agattgagcg 421 cacgggctgt gaatgtgtg gtgggcgtgt gtgtcttctg gtgtgtgtt ggtctggatt 481 tctcgtgaa tatgggcatg tgcatgttg ggcatatgta ttgtgagtgt gtgtggtct 541 gtgtgcctgg gagtgttgg atgtgtgt ttctgtgtgt gtttgtgat ggctgcatgt 601 ctgtgtatg cgtgtgtct aggctgtgt attggtgtat ttggtgtat ggcgtgtgt 661 cagggagaag gggtttgga atgtaaggca ctttcccaca tccttcagaa actcttctcc 721 ccacagaccc cttcctggag cagccttggg ggttctgagc atcaaggtag gggaaatgcc 781 ccctccctgg ggcctaacct cttccccac ttcctcgac accacacac tcctcccac
```

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#### FIGURE 2

#### LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA intron 2-intron 4, 989 bp

## **FEATURES**

intron 2 <1-21 exon 3 22-177 intron 3 178-541 exon 4 542-945 intron 4 946-989>

BASE COUNT 229 a 306 c 286 g 168 t

```
1 caggececat teceetteea gagatgaget teetagagea agaaaacage ageteatgge
 61 catcaccage tgtgaccage agetcagaaa gaatcegtgg gaaacggagg gecaaageet
121 tgagatggac aaggcagaag tcggtggagg aaggggagcc accaggtcag ggggaaggtg
181 aggccaaggc cagttctggg gaggtgggag ccaggggagt gggaaatccc agaggagcct
241 gggtctggtc tctacctcag gtccctccat aacacagagt tggacccaac cttcatcttg
301 tggcctcagt ctccctacat agtagagaac aaggcactgc agtgccagag gccagcatgg
361 ccaactcaga aagatgggac agagccacta cctggggcga ctctcaggtc agcccctcac
421 ctgcaaatag ggccacagca tccaggcttc ccactgctgc tgtgagatga atggcgacag
481 cagatgagaa cgtgctttgg aagatggagt tactgtcctc ttcccctcct ccccaaaca
541 ggtccccggt ccaggccagc tgctgagtcc accgggctgg aggccacatt ccccaaqacc
601 acaccettgg ctcaagetga teetgeeggg gtgggeacte caccaacagg gtgggaetge
661 ctcccctctg actgtacagc ctcagctgca ggctccagca cagatgatgt ggagctggcc
721 acggagttcc cagccacaga ggcctgggag tgtgagctag aaggcctgct ggaagagag
781 cctgccctgt gcctgtcccc gcaggcccca tttcccaagc tgggctggga tgacgaactg
841 cggaaacccg gcgcccagat ctacatgcgc ttcatgcagg agcacacctg ctacgatgcc
901 atggcaacta gctccaagct agtcatcttc gacaccatgc tggaggtgag gccacggctc
961 tgcccaacct gtactcactc tccatccac
```

#### FIGURE 3

#### LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 4-intron 10, 1722 bp

# FEATURES

intron 4 <1-13 14 - 95exon 5 96-552 intron 5 exon 6 553-611 intron 6 612-736 737-782 exon 7 intron 7 783-986 987-1041 exon 8 intron 8 1042-1242 1243-1369 exon 9 1370-1522 intron 9 exon 10 1523-1688 intron 10 1689-1722>

BASE COUNT 321 a 504 c 534 g 363 t

1 cctggccct cagatcaaga aggccttctt tgctctggtg gccaacggtg tgcgggcagc 61 ccctctatgg gacagcaaga agcagagctt tgtgggtgag gagaggctgg ggaggtgaag 121 ggagatggag gaggtgaggg ggagatcttg tacggttgtt ctggggctga tctctgatat 181 accacaaget tggetteagg ceaageeeag ceaggggeea gggtggagga aagteeatee 241 ggagtctgca tggccagctg ggagaccctg gggctcaatt tccccatctg tggagccgct 301 atgaccaget gacacettte aceteegeta etgeatggee etgtgecata ggtgetaggg 361 agcaaatggg gggaggcagg agagaaagag ccccacttct caggcctggg gggctgcccc 421 actqtcctqt tcccacaqtc cccactqtqt ctcaqcacaa qqacactqqc aggqtqqqqa 481 ggggatctga ccctcaacct gccttccacc caaaggcccc gggctgacct cctccccgcc 541 cctccctgc agggatgctg accatcactg acttcatcct ggtgctgcat cgctactaca 601 ggtccccct ggtgaggagt gggctgggaa tcttatgggc acccagaggg gcggggggg 661 aggggagtcc tcctggagcc tggtgcccta gaagcccacg tctttctgac ttctggagtc 721 ctgtcgatgt ctctaggtcc agatctatga gattgaacaa cataagattg agacctggag 781 gggtgagtgg ggagaggaac ccggaaaggg gctgttggtg atggtgggcc agggcttaag 841 gtggaggatg ggcagtgggg atgtcctgga gtgaacaggg gagggacaat aggagcctcg 901 qqtqcctqac qqaaqqqaaq ctqcctqqqa ctqcaagqtq aggcaggtqa ccggctcccc 961 tggcctgact ctggctcttt ctgcagagat ctacctgcaa ggctgcttca agcctctggt 1021 ctccatctct cctaatgata ggtgggtgtc tctgctcatt cacctgagcc tcctcctccc 1081 acagtecect tecceagtee caeteagete tgaacteace tetteateet aggeggeaca 1141 cagacaaggg agccttggtg ccctgccctc ctttttaggg gcctgggatg gaggttgtct 1201 ctccctaggc tgccccgagg ctcactgctc ccatctctgc agcctgtttg aagctgtcta 1261 cacceteate aagaacegga tecategeet geetgtfett gacceggtgt caggeaacgt 1321 actocacate etcacacaca aacgeetget caagtteetg cacatetttg taageetggg 1381 cccaggtggg aggaaggggg agacctgggc aggtgatcag agggcctgag gagtcttcag 1441 ccctagcagt cgtggggaag agctgggagc cctcttgaag ctgctggatc cctgatctcc 1501 acctggtccc catcctaacc agggttccct gctgccccgg ccctccttcc tctaccgcac 1561 tatccaagat ttgggcatcg gcacattccg agacttggct gtggtgctgg agacagcacc 1621 catcctgact gcactggaca tctttgtgga ccggcgtgtg tctgcactgc ctgtggtcaa 1681 cgaatgtggt acccacccc aggatgagag gctcgggctg ga

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# FIGURE 4

#### LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 10-3'UTR, 1014 bp

FEATURES
intron 10 <1-41
exon 11 42-79
intron 11 80-249
exon 12 250-396
intron 12 397-739
exon 13 740-856

3'UTR 857-1014>

BASE COUNT 192 a 325 c 271 g 226 t

```
1 cctgtctttc tcccccacc ccccacaacc accctctgca ggtcaggtcg tgggcctcta
61 ttcccgcttt gatgtgattg taagtgtcgc tggaaaggtg ggatgctgca gggaggctaa
121 gggtgtgggg atgggtgggg ggcctctgtg gaccaggggg accttgacaa gtatgcaggg
181 gttgacatct gtagggtagg agcccaggca agggggtgac taggagccat acttctctct
241 ctgccccagc acctggctgc ccagcaaacc tacaaccacc tggacatgag tgtgggagaa
301 gccctgaggc agaggacact atgtctggag ggagtccttt cctgccagcc ccacgagagc
361 ttgggggaag tgatcgacag gattgctcgg gagcaggtac cgtgtgccct ccattcatgc
421 coccaacaca tatagoccag toottotoat goacggotoc agocatocot gaacatoggg
481 cacctggcct atccttccat ttcatgacca actcctggtg cccacactgg cctgcacctg
541 gteetgteea tggggeeett atgeeagggg teaetgeeaa etgateaeet taggeeggte
601 acaccatece taactggttt ctaggagacg eteteteet cagteatgtt gggttgttte
661 ccctgattct tggcaccaac ctcagtagct gctgtagccc catggctctg ccccctcact
721 gaacattgcg gacccacagg tacacaggct ggtgctagtg gacgagaccc agcatctctt
781 gggcgtggtc tccctctccg acatccttca ggcactggtg ctcagccctg ctggcatcga
841 tgccctcggg gcctgagaag atctgagtcc tcaatcccaa gccacctgca cacctggaag
901 ccaatgaagg gaactggaga actcagcctt catcttcccc cacccccatt tgctggttca
961 gctatgattc aggtaggctc tgccctgggc catgacacca gcctcttagt cttc
```

#### FIGURE 5

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), cDNA including the complete cds, 1647 bp

**FEATURES** 

CDS

20-1489

/note="predicted coding region"

/translation="MEPGLEHALRRTPSWSSLGGSEHQEMSFLEQENSSSWPSPAVTSSSERIRGKRRAKALRWTRQKS VEEGEPPGQGEGPRSRPAAESTGLEATFPKTTPLAQADPAGVGTPPTGWDCLPSDCTASAAGSSTDDVELATEFPATEA WECELEGLLEERPALCLSPQAPFPKLGWDDELRKPGAQIYMRFMQEHTCYDAMATSSKLVIFDTMLEIKKAFFALVANG VRAAPLWDSKKQSFVGMLTITDFILVLHRYYRSPLVQIYEIEQHKIETWREIYLQGCFKPLVSISPNDSLFEAVYTLIK NRIHRLPVLDPVSGNVLHILTHKRLLKFLHIFGSLLPRPSFLYRTIQDLGIGTFRDLAVVLETAPILTALDIFVDRRVS ALPVVNECGQVVGLYSRFDVIHLAAQQTYNHLDMSVGEALRQRTLCLEGVLSCQPHESLGEVIDRIAREQVHRLVLVDE TQHLLGVVSLSDILQALVLSPAGIDALGA"

BASE COUNT 346 a 502 c 462 g 337 t

```
1 ttggtctggg gctggccaca tggagcccgg gctggagcac gcactgcgca ggaccccttc
 61 ctggagcagc cttgggggtt ctgagcatca agagatgagc ttcctagagc aagaaaacag
121 cageteatgg ceateaceag etgtgaceag cageteagaa agaateegtg ggaaaeggag
181 ggccaaagcc ttgagatgga caaggcagaa gtcggtggag gaaggggagc caccaggtca
241 gggggaaggt ccccggtcca ggccagctgc tgagtccacc gggctggagg ccacattccc
301 caagaccaca cccttggctc aagctgatcc tgccggggtg ggcactccac caacagggtg
361 ggactgcctc ccctctgact gtacagcctc agctgcaggc tccagcacag atgatgtgga
421 gctggccacg gagttcccag ccacagaggc ctgggagtgt gagctagaag gcctgctgga
481 agagaggeet geeetgtgee tgteeeegea ggeeecattt eeeaagetgg getgggatga
541 cgaactgcgg aaacccggcg cccagatcta catgcgcttc atgcaggagc acacctgcta
601 cgatgccatg gcaactagct ccaagctagt catcttcgac accatgctgg agatcaagaa
661 ggccttcttt gctctggtgg ccaacggtgt gcgggcagcc cctctatggg acagcaagaa
721 gcagagcttt gtggggatgc tgaccatcac tgacttcatc ctggtgctgc atcgctacta
781 caggtccccc ctggtccaga tctatgagat tgaacaacat aagattgaga cctggaggga
841 gatctacctg caaggetget teaageetet ggtetecate teteetaatg atageetgtt
901 tgaagetgte tacaccetea teaagaaceg gateeatege etgeetgtte ttgaceeggt
961 gtcaggcaac gtactccaca tcctcacaca caaacgcctg ctcaagttcc tgcacatctt
1021 tggttccctg ctgccccggc cctccttcct ctaccgcact atccaagatt tgggcatcgg
1081 cacatteega gacttggetg tggtgetgga gacageacee ateetgactg cactggacat
1141 ctttgtggac cggcgtgtgt ctgcactgcc tgtggtcaac gaatgtggtc aggtcgtggg
1201 cctctattcc cqctttgatg tgattcacct qqctqcccag caaacctaca accacctgga
1261 catgagtgtg ggagaagccc tgaggcagag gacactatgt ctggagggag tcctttcctg
1321 ccagccccac gagagcttgg gggaagtgat cgacaggatt gctcgggagc aggtacacag
1381 gctggtgcta gtggacgaga cccagcatct cttgggcgtg gtctccctct ccgacatcct
1441 tcaggcactg gtgctcagcc ctgctggcat cgatgccctc ggggcctgag aagatctgag
1501 tecteaatee caagecaect geacaectgg aagecaatga agggaactgg agaacteage
1561 cttcatcttc ccccacccc atttgctggt tcagctatga ttcaggtagg ctctgccctg
1621 ggccatgaca ccagcctctt agtcttc
```

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